



10-06-03

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:)	Group Art Unit:
)	
JOHNSON et al.)	Examiner:
)	
Serial No.: 10/622,677)	<u>FIRST SUPPLEMENTAL INFORMATION</u>
)	<u>DISCLOSURE STATEMENT</u>
Filed: July 18, 2003)	
)	
Atty. File No.: 3791-13-CON)	Express Mail Label: EV331291054US
)	
For: "LOW SULFUR COAL ADDITIVE)	
FOR IMPROVED FURNACE)	
OPERATION)	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached Form PTO-1449 are being called to the attention of the Examiner.

Copies of the cited references:

- ☒ Are enclosed herewith.
- ☐ Are not enclosed, in accordance with 37 C.F.R. 1.98(d), because the references were submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120

☐ To the best of applicants' belief, the pertinence of the foreign-language references are believed to be summarized in the attached English abstracts and in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☐ Examiner's attention is drawn to the following co-pending applications, copies of which have been or are being submitted:

Serial No. _____ filed _____

Serial No. _____ filed _____

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

<input checked="" type="checkbox"/>	<p>37 CFR 1.97(b): No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfies one of the following conditions ("X" indicates satisfaction):</p> <ul style="list-style-type: none"><input checked="" type="checkbox"/> Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or<input type="checkbox"/> Within three months of the date of entry into the national stage of an international application as set forth in 37 CFR 1.491 or<input type="checkbox"/> Before the mailing date of a first Office Action on the merits, or<input type="checkbox"/> Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. <p>Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.</p>
<input type="checkbox"/>	<p>37 CFR 1.97(c): The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of one of the following conditions:</p> <ul style="list-style-type: none">(1) a final action under 37 C.F.R. 1.113 or(2) a notice of allowance under 37 C.F.R. 1.311, or(3) an action that otherwise closes prosecution in the application. <p>This Information Disclosure Statement is accompanied by:</p> <ul style="list-style-type: none"><input type="checkbox"/> A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. <p style="text-align: center;">OR</p> <ul style="list-style-type: none"><input type="checkbox"/> A check in the amount of \$180.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970.
<input type="checkbox"/>	<p>37 CFR 1.97(d): This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c).</p> <ul style="list-style-type: none"><input type="checkbox"/> This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e) <p style="text-align: center;">AND</p> <ul style="list-style-type: none"><input type="checkbox"/> Applicants hereby requests consideration of the reference(s) disclosed herein. Enclosed is the fee in the amount of \$180.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970. Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.

Certification (37 C.F.R. 1.97(e))
(Applicable only if checked)

☐ The undersigned certifies that:

☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).

☐ A copy of the communication from the foreign patent office is enclosed.

OR

☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

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Date: Oct 2, 2003

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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
3791-13-CONSERIAL NO.
10/622,677INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)APPLICANT
JOHNSON et al.FILING DATE
July 18, 2003GROUP ART
3749

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
	1	20020088170	7/11/2002	Sanyal	44	627	
	2	6,258,456	7/10/2001	Meyer	428	403	
	3	6,165,366	12/26/2000	Sarangapani	210	666	
	4	6,139,751	10/31/2000	Bogaert et al.	210	679	
	5	6,083,306	7/4/2000	Cattani	96	157	
	6	5,899,678	5/4/1999	Thomson et al.	431	2	
	7	5,894,806	4/20/1999	Smyrniotis et al.	110	343	
	8	5,888,256	3/30/1999	Morrison	44	552	
	9	5,885,076	3/23/1999	Ralls et al.	433	92	
	10	5,819,672	10/13/1998	Radway et al.	110	344	
	11	5,797,742	8/25/1998	Fraker	433	92	
	12	5,795,159	8/18/1998	Ralls et al.	433	92	
	13	5,741,397	4/21/1998	Kraver	159	25.2	
	14	5,679,259	10/21/1997	Bolser	210	719	
	15	5,658,487	8/19/1997	Carey et al.	252	180	
	16	5,613,851	3/25/1997	Trawöger et al.	433	92	
	17	5,577,910	11/26/1996	Holland	433	92	
	18	5,357,002	10/18/1994	Lezzi et al.	525	332.2	
	19	5,333,558	8/2/1994	Lees, Jr.	110	346	
	20	5,324,336	6/28/1994	Child	44	608	
	21	5,320,051	6/14/1994	Nehls, Jr.	110	345	
	22	5,282,430	2/1/1994	Nehls, Jr.	110	345	
	23	5,207,164	5/4/1993	Breen et al.	110	345	
	24	5,114,578	5/19/1992	Sundström	210	256	
	25	5,017,135	5/21/1991	Meyer	433	92	
	26	4,919,826	4/24/1990	Alzner	210	788	
	27	4,843,980	7/4/1989	Markham et al.	110	342	

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT
JOHNSON et al.FILING DATE
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	28	4,796,548	1/10/1989	Merrell et al.	110	343	
	29	4,784,670	11/15/1988	Najjar	48	197 R	
	30	4,765,258	8/23/1988	Zauderer	110	347	
	31	4,753,632	6/28/1988	Hofmann et al.	494	43	
	32	4,741,278	5/3/1988	Franke et al.	110	342	
	33	4,706,579	11/17/1987	Merrell	110	343	
	34	4,671,804	6/9/1987	Najjar	48	197 R	
	35	4,668,429	5/26/1987	Najjar	252	373	
	36	4,577,566	3/25/1986	Merrell	110	343	
	37	4,572,085	2/25/1986	Hepworth	110	345	
	38	4,564,374	1/14/1986	Hofmann	55	57	
	39	4,514,256	4/30/1985	Kober et al.	162	30.11	
	40	4,438,709	3/27/1984	Borio et al.	110	347	
	41	4,385,891	5/31/1983	Ligotti	433	92	
	42	4,372,227	2/8/1983	Mahoney et al.	110	342	
	43	4,238,329	12/9/1980	Zievers	210	36	
	44	4,083,783	4/11/1978	Wing et al.	210	54	
	45	4,051,316	9/27/1977	Wing et al.	536	107	
	46	3,947,354	3/30/1976	Swanson et al.	210	53	
	47	3,823,676	7/16/1974	Cook et al.	110	1 J	
	48	3,332,755	7/25/1967	Kukin	44	4	
	49	3,004,836	10/17/1961	Thompson	44	4	
	50	2,844,112	7/22/1958	Muller	110	1	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
	51	CN 1052838	7/10/1991	China	C04B	7/02		
	52	EP 0 433 674	11/17/1990	Europe	C22B	19/00		

EXAMINER

DATE CONSIDERED

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	APPLICANT JOHNSON et al.	
	FILING DATE July 18, 2003	GROUP ART 3749

53	FR 1394847	4/9/1965	France	C21C	20		
54	JP 11-94234	1999	Japan	F23J	7/00		X
55	WO 91/09977	7/11/1991	PCT	C22B	19/04		
56	WO 86/04602	8/14/1986	PCT	C10M	135/00		

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

57	"ADA-ES Tests New Broiler Product"; <i>Coal Daily</i> ; April 18, 2000; 1 pg.
58	Aldrich Chemical catalog; <i>Aldrich Chemical Co., Inc.</i> ; 1996; pp. 863-866.
59	"Burning PRB Coals ADA Environmental Offers Flyash Solutions"; <i>Western Coal Advisory</i> ; Summer/Autumn 1999
60	"Chapter 15: Fuel-ash Effects on Boiler Design and Operation"; <i>Steam by The Babcock and Wilcox Company</i> ; 1972; pp. 15-1 to 15-16.
61	Revised Declaration of Richard Schlager, August 19, 2003

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